

TITLE: METHOD FOR LUMINANCE COMPENSATION OF LIQUID CRYSTAL
DISPLAY AND ITS DEVICE

ABSTRACT OF THE DISCLOSURE

A method for luminance compensation of liquid crystal display includes:
5 measuring the original gamma curve of the panel, setting a target gamma curve,
inputting an initial gray level to obtain a luminance corresponding to the target
gamma curve, finding the adjusted gray level for expressing the luminance from the
original gamma curve, repeating the steps stated above to make a lookup table
containing plural groups of proportion array. Then calculating the quantity distribution
10 of input gray levels of images, selecting a corresponding proportion array from the
lookup table according to the proportion value between dark level and bright level,
substituting the adjusted gray levels in the proportion array for the input gray levels,
outputting the adjusted gray levels for adjusting the signal intensity can improve the
image quality. The method and the device for luminance compensation can adjust the
15 intensity of input signals to obtain better image quality and suit for the image
adjustment of various liquid crystal displays or similar displays.